Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

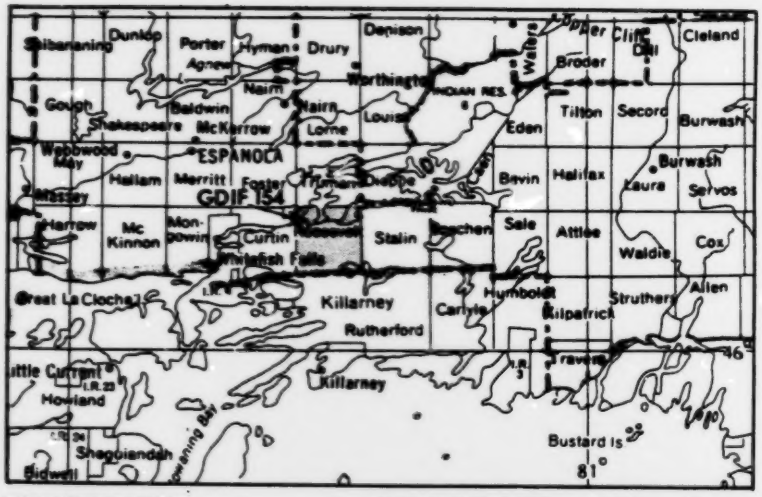
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 154

ROOSEVELT TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office,
Sudbury



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

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ACCOMPANYING MAPS

Property Location Map – 1 map
Exploration Data Map – 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

NTS Number 41 I/3, 4

Mining Claim Map Number M 1081

This project was funded by the Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984: Roosevelt Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 154, compiled by the staff of the Resident Geologist's Office, Sudbury, 16 pages and 2 maps.

Original Compilation by: Adlington, Richard, Dec.14, 1983

Date	Page Revised	Revised by

Date	Page Revised	Revised by

ROOSEVELT TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	R.A.
2	Assessment Files Research Office, Toronto	N.A.	R.A.
3	ODM General Index; 7 volumes	Yes	R.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	R.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	R.A.
6	ODM Industrial Mineral Reports	No	R.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	R.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	R.A.
9	Newspaper Clippings File	Yes	R.A.
10	GSC Index to Publications	Yes	R.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	R.A.
12	OGS Index Maps	Yes	R.A.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrences File	Yes	R.A.
14	Author - Subject Articles File	Yes	R.A.
15	Miscellaneous Papers: ODM & OGS	Yes	R.A.
16	ODM Geological Circulars: OGS Study Series, Reports	Yes	R.A.
17	ODM Preliminary Reports: ODM Bulletins	No	R.A.
18	ODM – OGS Open File Reports	Yes	R.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	R.A.
20	OGS Aggregate Resources Inventory Papers	No	R.A.
21	OGS Mineral Potential Maps	Yes	R.A.
22	Theses on File, Sudbury	Yes	R.A.
23	Aerial Photographs on File, Sudbury	Yes	R.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
▲ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Bsryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . .Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
△ gn. . . . . .Galena
△ gt. . . . . .Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
△ gf. . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . .Gypsum
△ hem . . . . . Hematite
△ il . . . . . .Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . .Magnesite
△ mag . . . . . .Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . .Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
▲ ml . . . . . .Millerite
△ mo . . . . . Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
△ po . . . . . .Pyrrhotite
△ q . . . . . .Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . .Shale
▲ sid . . . . . Siderite
△ si . . . . . .Silica
△ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod. . . . . .Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . .Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . .Zinc
△ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Little Bear Lake Occurrence	py,ml	Ni 1	MRC1, p.52	Roosevelt Files 10-A1, 11-A1
B	Bousquet Showing	py,cp	-	-	Roosevelt Files 11-B1, 12-A1
C	Lashbrook Showing	Cu,Au	-	-	Roosevelt File 12-A1
D	Harwood Lake (Leach Lake) Occurrence - No.1 Vein	py	Au 5	MDC18, p.81	AR48, pt.10, pp.20-23
E	Harwood Lake Occurrence - White Quartz (No.3) Vein	py,asp,Au	Au 5	MDC18, p.81	AR48, pt.10, pp.20-23
F	Harwood Lake Occurrence - Blue Quartz (No.4) Vein	sid,py,asp, Au	Au 5	MDC18, p.81	AR48, pt.10, pp.20-23

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	SHAFT SINKING	SHAFT DEEPENING	
1	Bousquet, L.			74																
2	Dungarvon Resources Ltd. (Vaughn, W. S.)	81										81	81							
3	Falconbridge Nickel (Hatch, Little Bear Lake Occurrence)				54							54	54							
4	Lashbrook, D.											79	79							
5	New Minda-Scotia Mines Ltd.				57	57														
6	White, L. S., & J. (Harwood Lake Mines Ltd., Clarence Gold Mines Ltd., Steep, Harwood Lake-Leach Lake Occurrence)			28 35 -37 82	35 -37	17 34												-17 35 -37	35[1] -37	
	[1]On "Blue Quartz" vein																			

GDI FORM NO. 7

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Falconbridge Nickel	H1	1954	167	48	34	579.6	py,po,cp	-
2	New Minda-Scotia Mines	R1	1957	NE	45	13	416	py	Ni
2a		R2	1957	NE	45	42	258	py	-
2b		R3	1957	NE	47	68	349	py	Cu,Ni
2c		R4	1957	NE	44	94	332	py	-
2d		R5	1957	NE	43	142	306	py,cp	-
2e		R6	1957	NE	60	144	144	-	-
2f		R7	1957	NE	45	19	119	-	-
3	Harwood Lake Mines	6	1935-37	No	Data				
4		6a	1935-37	No	Data				
5		5	1935-37	No	Data				
6		6	1935-37	No	Data				
7		1	1935-37	No	Data				
7a		2	1935-37	No	Data				
7b		7	1935-37	No	Data				
7c		7a	1935-37	No	Data				
7d		8	1935-37	No	Data				
7e		10	1935-37	No	Data				
8		3	1935-37	No	Data				
9		9	1935-37	No	Data				

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

ROOSEVELT TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO. 6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sudbury

New Minda-Scotia Mines
Northern Miner Aug.9, 1956
Dec.6, 1956
Apr.4, 1957
Sept.15, 1958 - Merger with Great Lakes Copper
& Sept.25, 1958 Mines

ODM GENERAL INDEX SEARCH

Words searched:

BOUSQUET, L.
CLARENCE GOLD MINES
DUNGARVON RESOURCES
HARWARD (HANWOOD) LAKE
HATCH
LASHBROOK, D.
LEECH LAKE
LITTLE BEAR LAKE
NEW MINDA SCOTIA MINES
ROOSEVELT TP.
STEEP
TP.90
WHITE, L. S.

Index Volume	Listing:	Report Volume	Part	Page
3	CLARENCE GOLD CLAIMS, Tp.90, Sud.			
	Mineralization	38	7	50,51
	CLARENCE GOLD MINES, LTD.			
	Incorporated	38	1	54
3	HARWOOD LAKE GOLD MINE, Roosevelt tp.			
	Report, plan, & sketch map	48	10	20-23
3	HARWOOD LAKE MINES LTD.			
	See also Harwood Lake g.m.			
	Incorporated	44	1	45
	Mine manager and address	46	1	73
3	HARWOOD LAKE, Roosevelt tp.			
	Gold mg.			
	See Clarence g. claims			
	Harwood Lake g.m.			
7	HATCH NICKEL PROPERTY, Roosevelt twp.			
	Report on, (1954)	MRC1		52
3	LEECH LAKE, ROOSEVELT tp.			
	Gold mg. See Harwood Lake g.m.			
6	NEW MINDA-SCOTIA MINES LTD.			
	Change of name	65	1	38
3	TOWNSHIP 90, Sud.			
	Gold mg.			
	See Clarence g. claims			
	Harwood Lake Mines			

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1971	Panache Lake Area, West Part	O.D.M. Map P.668	1"=1 mile
	1971	Panache Lake Area, East Part	O.D.M. Map P.669	1"=1 mile
	1978	Sudbury-Manitoulin Area	O.G.S. Map 2360	1"=2 miles
Card, K. D. & Lumbers, S. B.	1974,75	Sudbury-Cobalt	O.G.S. Map 2361	1"=4 miles
Thomson, J. E.	1961,68	Espanola Sheet	O.D.M. MapP.105	1"=2 miles
		GEOPHYSICAL MAPS		
		Aeromagnetic Maps		
O.D.M.-G.S.C.	1965	Lake Panache	1516G	1"=1 mile
O.D.M.	1965	Whitefish Falls	1522G	1"=1 mile
O.D.M.-G.S.C.	1952	Roosevelt Township	A68	1"=¼ mile
O.G.S.	1965	Sudbury, Ontario	7067G	1"=4 miles
	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey. Geophysical Series	Map P.160	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dep't of Energy, Surveys & Mapping Branch	1957	Topographic Map Lake Panache		1:50,000
	1975	Topographic Map, Whitefish Falls		1:50,000
Gartner, J. F.	1978	N.O.E.G.T.S. Data Base Map, Espanola		1:100,000
	1980	N.O.E.G.T.S. Study 99, Espanola Area		

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000
		GEOCHEMICAL		
		No Data Available, Dec.14, 1983		
		GEOLOGICAL REPORTS AND MAPS		
Card, K. D.	1975	Geology of the Panache Lake Area, Dist. of Sudbury and Manitoulin	OFR5123	
	1968	Economic Geology of the Espanola Whitefish Falls Area	OFR5017	
	1978	Sudbury-Manitoulin Area, Districts of Sudbury and Manitoulin	O.D.M. GR166 O.D.M. Map 2360	1"=2 miles
Collins, W. H.	1917	North Shore of Lake Huron	G.S.C. Sum. Rept. Pt. E	
Gordon, J. B., et al	1979	Gold Deposits of Ontario, Part 2	O.D.M. MDC18	p.81
Moore, E. S.	1929	Ore Deposits Near The North Shore of Lake Huron	O.D.M. AR38, pt.7	pp.50,51
O.G.S. & Mineral Resources Branch	1982	Mineral Potential Map of Ontario Southern Sheet Magnetic Compilation Map Geological Compilation Map 2197	OFR5328	1"=16 miles 1"=16 miles 1"=16 miles

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Phemister , T. C.	1939	Notes on Several Properties in the District of Sudbury	O.D.M. AR48, pt.10	pp.20-23
Shklanka, R.	1969	Copper, Nickel, Lead and Zinc Deposits of Ontario	O.D.M. MRC12	p.281
Thomson, J. E.	1954	Copper, Nickel, Lead and Zinc Deposits in Ontario	O.D.M. MRC1	p.52
Vos. M. A., Smith, B. A., Stevenato, R. J.	1981	Industrial Minerals of the Sudbury Area	OFR5329	
Yundt, S. E., et al	1983	Industrial Minerals of Ontario	O.G.S. Map P.2591	1:50,000
		JOURNALS ARTICLES, THESES, TECHNICAL REPORTS		
Casshyap, S. M.	1966	Sedimentary Petrology and Stratigraphy of the Huronian Rocks South of Espanola, Ont. Ph.D., Western	Sudbury Theses File No.2	
Cooke, H. R. H.	1951	Sulphide Deposits West of Sudbury. B.Sc. Queen's	MP2	p.15
Eade, K. E.	1950	The Huronian Rocks of Northwestern Ontario. M.Sc., McG.	MP2	p.34
Ginn, R. M.	1960	The Relationship of the Bruce Series to the Granites in the Espanola Area. Ph.D., UT.	MP2	p.20
Long, D. G. F.	1978	Depositional Environments of a thick Proterozoic sandstone; the (Huronian) Mississagi Formation of Ontario, Canada.	Can. J. Earth Sci., Vol.15	pp.190-206
Lindsay, D. A.	1967	The Sedimentology of the Huronian Gowganda Formation, (With Special Reference to Whitefish Falls Area). Ph.D., Johns Hopkins.	Sudbury Theses File No.16	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Lindsay, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada	Geol. Soc. Am. Bull.,80	pp.1685-1702
McLennan, S. M., Fryer, B. J. Young, G. M.	1979	The geo-chemistry of the carbonate-rich Espanola Formation (Huronian) with emphasis on rare earth elements	Can. J. Earth Sci., Vol.16	pp.230-239
Palonen, P. A.	1971	Stratigraphy and Deformational Environment of the Mississagi Fm., Ont. M.Sc. Calgary	Sudbury Theses File No.18	
Quirke, T. T.	1915	Geology of Espanola District, Ontario Ph.D., UC.	MP2	p.38
Schenk, P. E.	1965	Depositional Environment of the Gowganda Formation (Precambrian) at the south end of Lake Timagami, Ontario	J. Sed. Pet., Vol.135	pp.309-318
Thachuk, N. M.	1960	The Origin of the Gowganda Banded Argillite. B.A.Sc., U.T.	MP2	p.44
Wright, J. D.	1935	The Age of Some Granite Batholiths North of Lake Huron and the Genetic Relations of the Arsenical Gold Ores to the Keweenawan Granites. Ph.D., UT.	MP2	p.48
Young, G. M.	1973	Origin of the carbonate-rich Early Proterozoic Espanola Formation, Ontario, Canada	Geol. Soc. Am. Bull., Vol.84	pp.135-160
	1981	The Early Proterozoic Gowganda Formation, Ontario Canada	Earth's Pre-Pleistocene Glacial Record. Cambridge U. Press	pp.807-812

GDIF FORM NO.9

NOTES AND ADDENDA

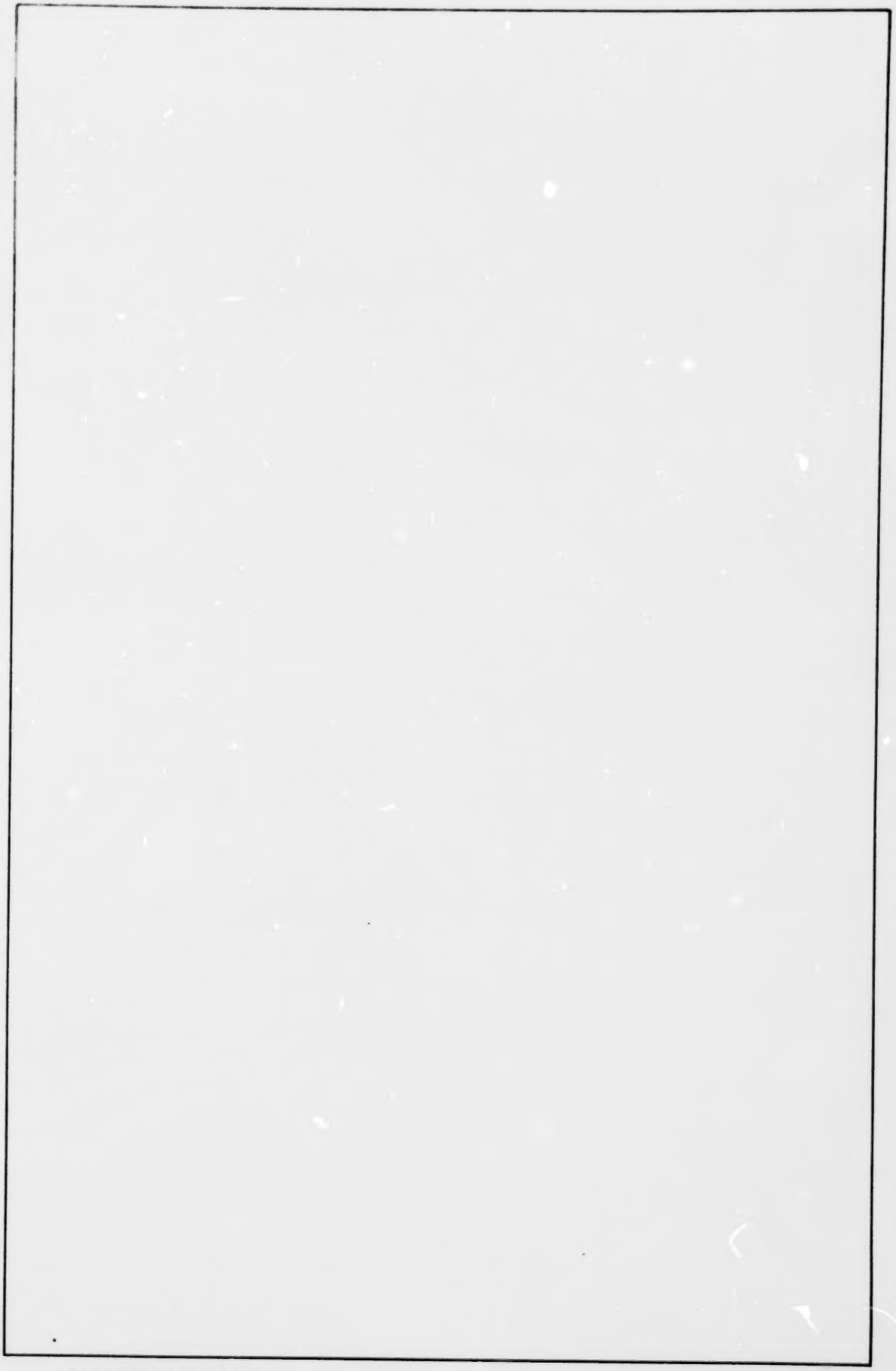
Harwood Lake is called Hanwood Lake on recent maps.

Aerial Photographs Index

Scale 1" = ¼ mile

Year	Roll	Line	Numbers
1959	54	4608	129-135
	23	4607	15-22
	16	4606	49-55
	22	4605	21-43
1946	10	169	24-31
	9	170	25-32
	9	171	24-31
	8	172	24-31
	8	173	25,26

GDIF FORM NO.10



ROOSEVELT TOWNSHIP

Ministry of Natural Resources

Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

(Map 1 of 2 .)

to accompany GEOLOGICAL DATA

INVENTORY FOLIO 154

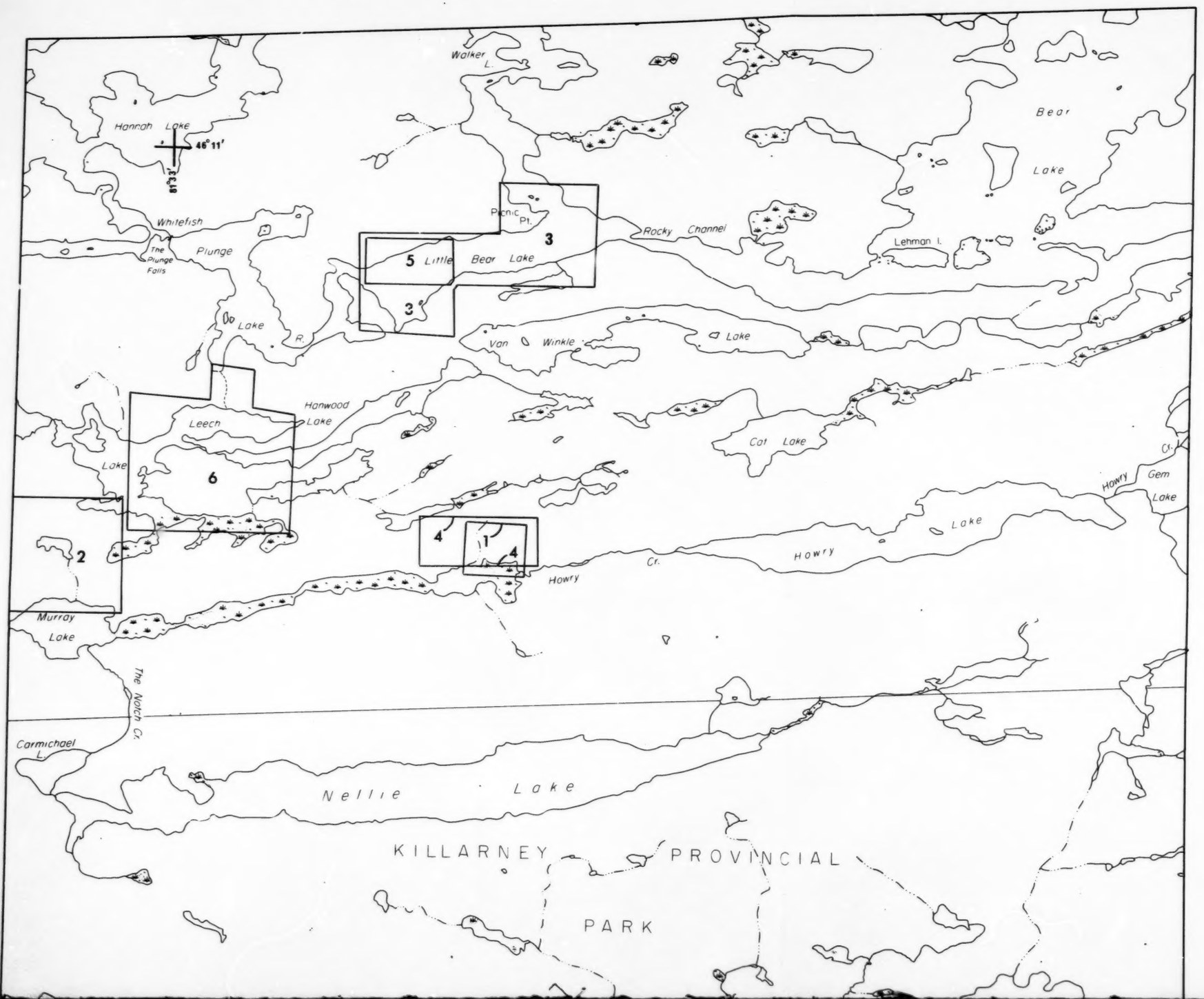
ROOSEVELT TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



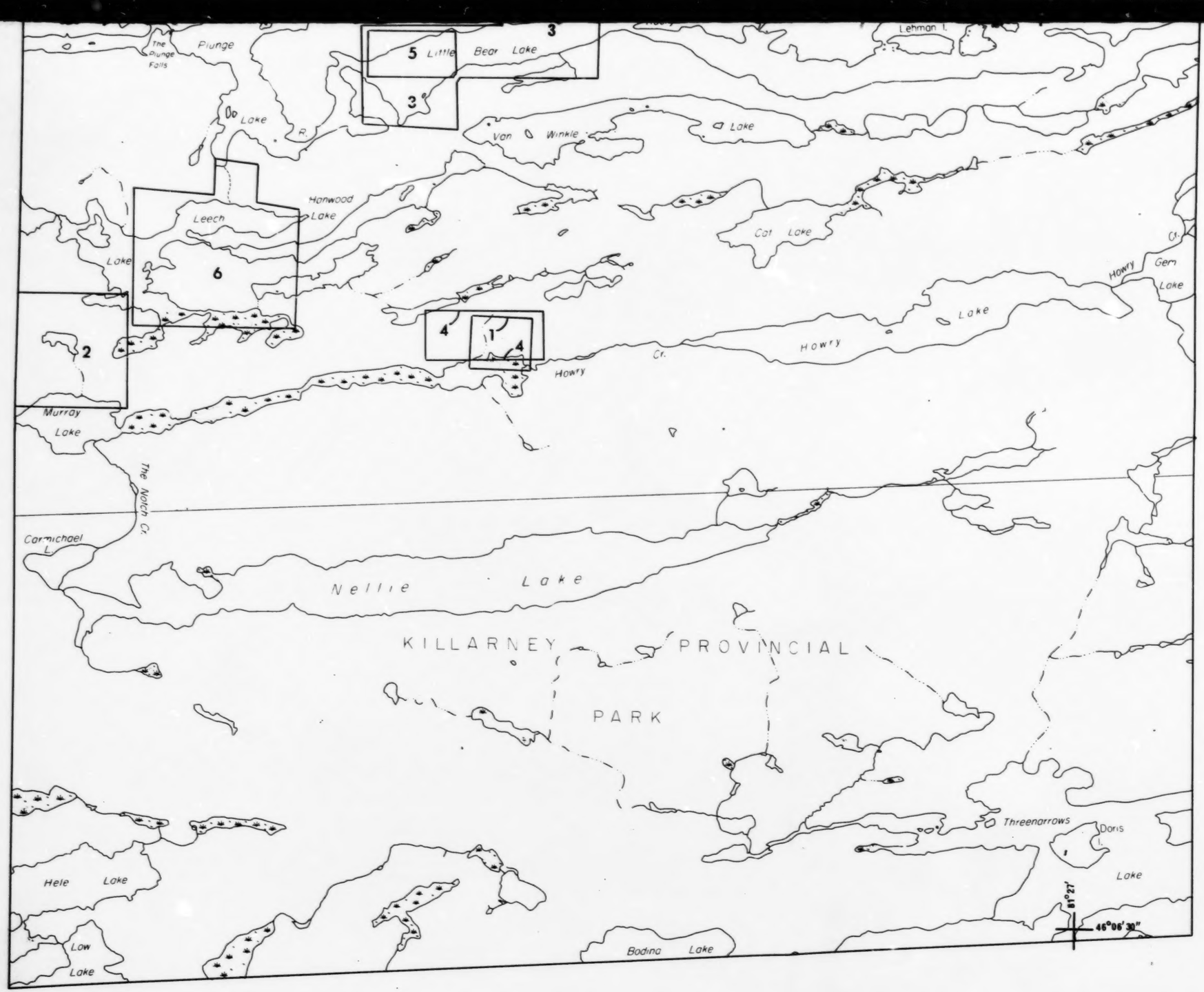
ROOSEVELT TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



EXPLORATION DATA FILE AREAS

☒ ① ⑤ Reference number is always inside work area outlined. See listing in text pages

☐ .x ④ Small area of exploration data.

☐

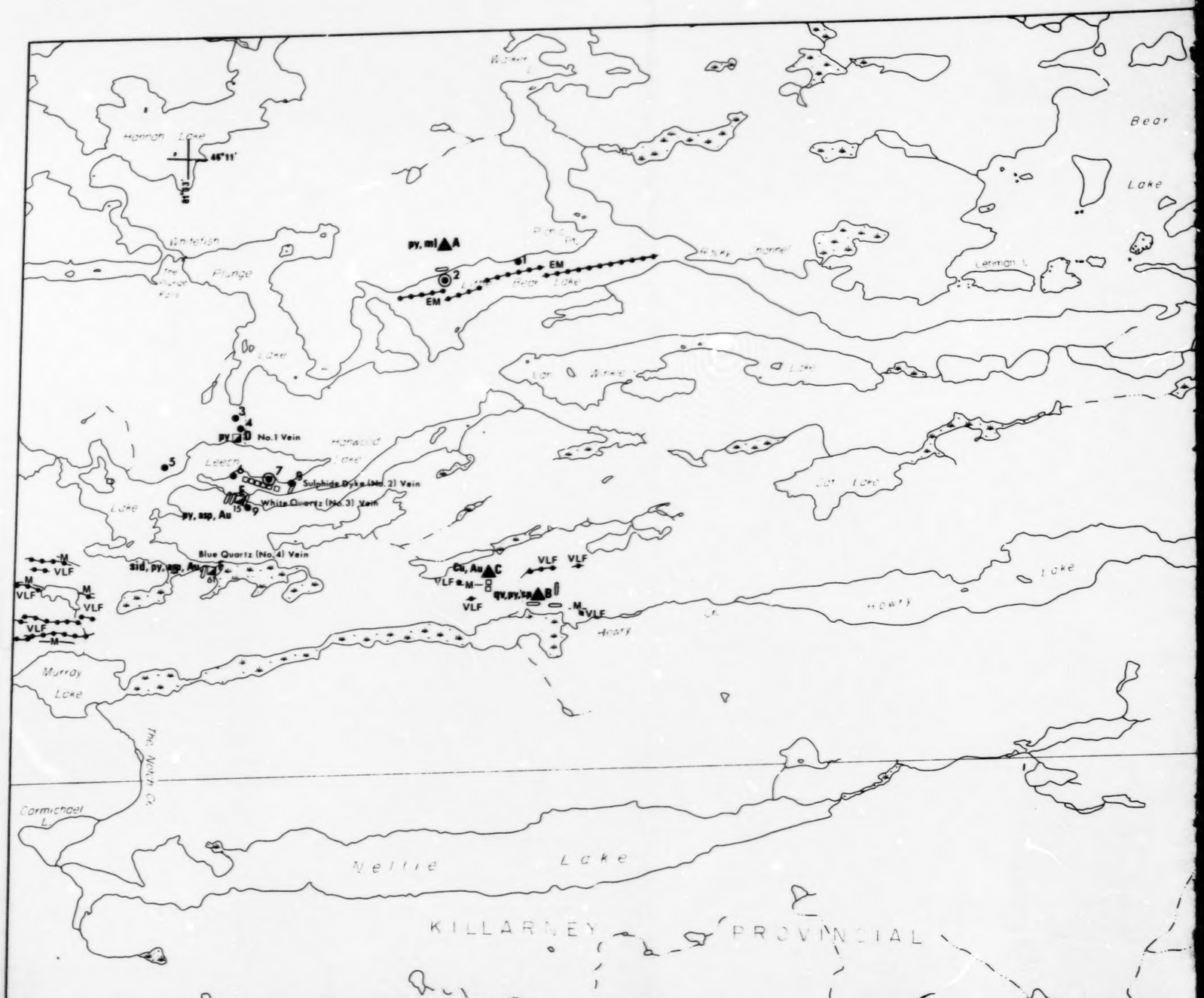
TYPES OF DATA SHOWN ON THIS MAP

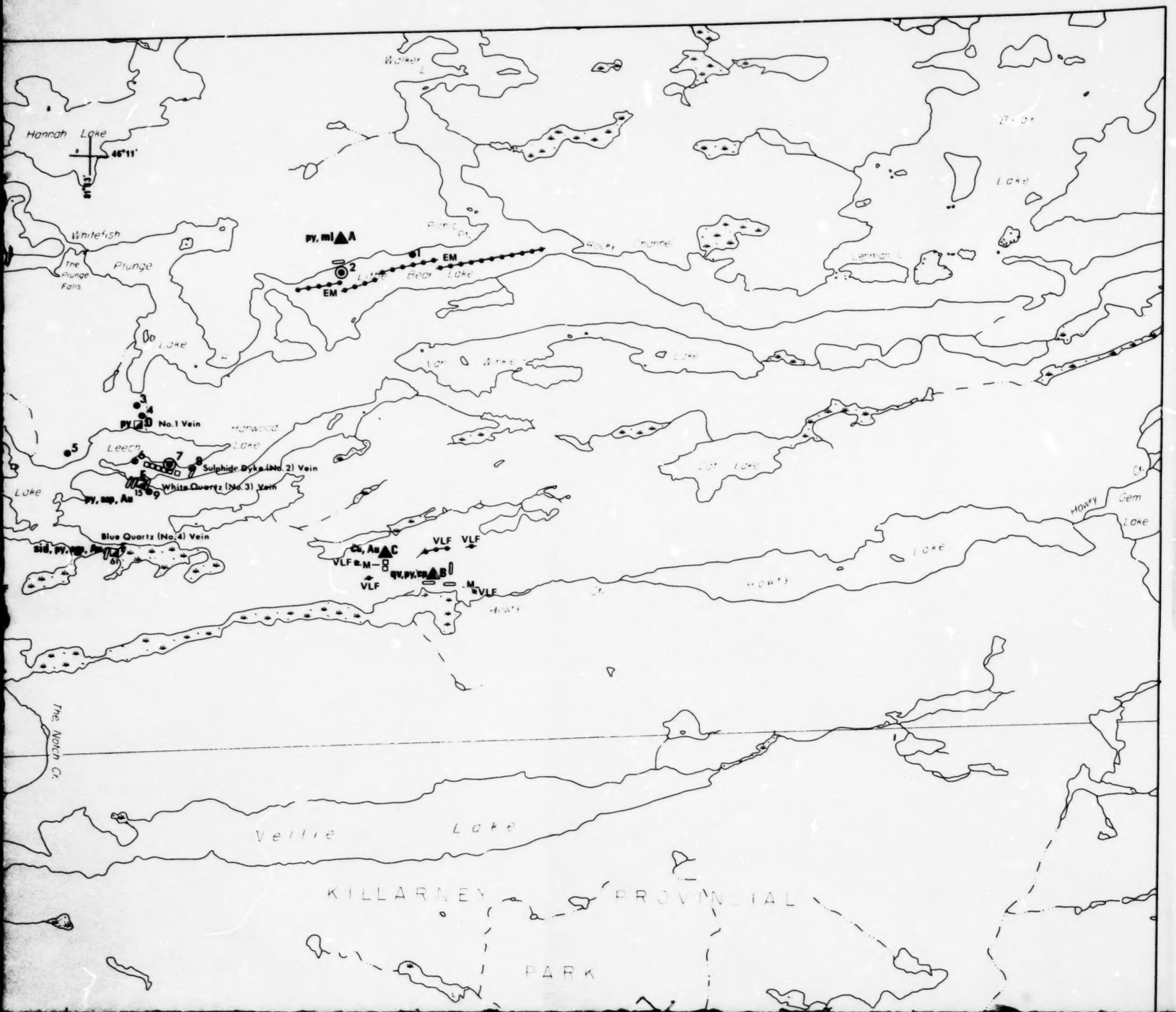
GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- Airborne Radiometric Anomaly
- Ground Magnetometer Anomaly
- Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- Ground Radiometric Anomaly
- Induced Polarization Anomaly
- Self Potential Anomaly
- Audio-frequency magnetometer anomaly
  (total intensity)
- Resistivity Anomaly
- Gravity Anomaly





Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY
Map to Accompany GEOLOGICAL DATA
INVENTORY FOLIO 154

ROOSEVELT TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2.)

MINERAL OCCURRENCES

- ☒ cp A. — Mineral occurrence at surface, with reference letter
- ☒ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized Float with reference letter
- ☐

DRILL HOLES

- ☒ 2 — Location of single drill hole, with reference number
- ☒ 2 — Location of closely spaced group of drill holes, with reference number

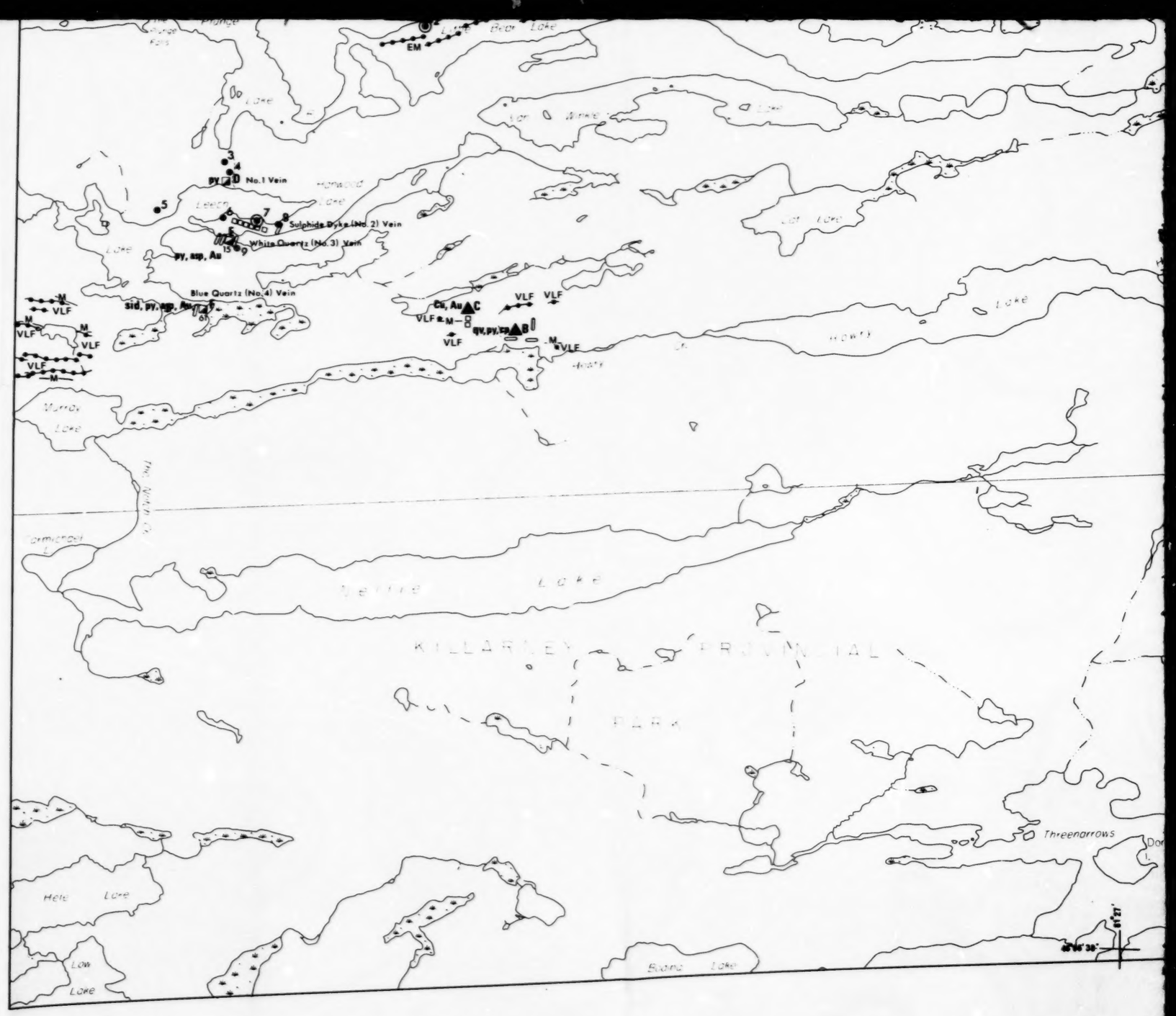
GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne Magnetometer Anomaly
- ☐ — Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- ☐ — Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- ☐ — Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly
- ☐ —

MISCELLANEOUS DATA

- ☒ — Trenching, pit
- ☐ — Adit
- ☐ — Open pit
- ☐ —
- ☐ — Rock quarry
- ☐ — Sand and/or gravel pit
- ☐ —

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



DISTRICT OF SUDBURY

Scale 1:31 680

Miles 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2)

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number